In the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Original) A current-driven display device comprising: a plurality of data lines;

a plurality of scan lines formed generally orthogonal with the plurality of data lines;
an array of pixels driven by a current, each of the pixels being formed near a crossing of one of
the data lines and one of the scan lines; and

at least one power supply line coupled to the pixels,

wherein a maximum average current density at a cross section of the power supply line is no greater than approximately 10^5 ampere per square centimeter (A/cm²).

- 2. (Original) The device of claim 1, the cross section of the power supply line further comprising a width and a thickness.
- 3. (Original) The device of claim 1, each of the pixels further comprising an electroluminescence device.
- 4. (Original) The device of claim 3, the electroluminescence device further comprising an anode, a cathode, and an electroluminescence layer formed between the anode and the cathode.

- 5. (Original) The device of claim 4, the electroluminescence layer further comprising an organic electroluminescence material.
- 6. (Original) The device of claim 4, the anode of the electroluminescence device being coupled to a first power supply line via a driving and controlling circuit.
- 7. (Original) The device of claim 4, the cathode of the electroluminescence device being coupled to a second power supply line.
- 8. (Original) The device of claim 2 wherein the width ranges from approximately 100 micro meters to 2000 micro meters.
- 9. (Original) The device of claim 2 wherein the thickness ranges from approximately 2000 angstroms to 6000 angstroms.
- 10. (Original) An electroluminescence display device comprising:

 an array of pixels, each of the pixels further comprising a driving and controlling circuit

 and an electroluminescence device;
 - at least one first power supply;
 - at least one first power supply line coupling the pixels to the at least one first power supply;
 - at least one second power supply; and
- at least one second power supply line coupling the pixels to the at least one second power supply,

wherein a maximum average current density at a cross section of each of the first or second power supply line is no greater than approximately 10⁵ ampere per square centimeter (A/cm²).

- 11. (Original) The device of claim 10, the cross-section of each of the first or second the power supply line further comprising a width and a thickness.
- 12. (Original) The device of claim 10, the electroluminescence device further comprising an anode, a cathode, and an electroluminescence layer formed between the anode and the cathode.
- 13. (Original) The device of claim 10, the electroluminescence device further comprising an organic light emitting diode.
- 14. (Original) The device of claim 12, the electroluminescence layer further comprising an organic electroluminescence material.
- 15. (Original) The device of claim 12, the anode of the electroluminescence device being coupled to one of the at least one first power supply line via the driving and controlling circuit.
- 16. (Original) The device of claim 12, the cathode of the electroluminescence device being coupled to one of the at least one second power supply line via a contact hole.
- 17. (Original) A method of suppressing electromigration effects in a power supply line for a current-driven display device comprising the steps of:

providing an array of pixels, each of the pixels comprising an electroluminescence device;

providing at least one first power supply line; providing at least one second power supply line; electrically coupling each of the pixels to one of the at least one first power supply line and one of the at least one second power supply line;

providing a current to the pixels via the at least one first and second power supply lines; and

measuring a maximum average current density at a cross section of each of the at least one first and second power supply lines at no greater than approximately 10⁵ ampere per square centimeter (A/cm²).

- 18. (Original) The method of claim 17 further comprising the step of forming the electroluminescence device with an anode, a cathode, and an electroluminescence layer formed between the anode and the cathode.
- 19. (Original) The method of claim 18 further comprising the step of forming the electroluminescence layer with an organic electroluminescence material.